INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019732

A. CLASSIFI Int.Cl	CATION OF SUBJECT MATTER 7 H01L29/78	PC1/UF2	2004/019/32
According to In	ternational Patent Classification (IPC) or to both national	al classification and IPC	
B. FIELDS SI			
Minimum docur Int.Cl	mentation searched (classification system followed by cl H01L29/78, H01L21/336, H01L29 H01L29/861	assification symbols) 9/06, H01L29/74, H01L29	/73,
Jitsuyo		roku Jitsuyo Shinan Koho	e fields searched 1994-2005 1996-2005
Electronic data t	pase consulted during the international search (name of c	lata base and, where practicable, search te	erms used)
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C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT	·	
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-101022 A (Toshiba Co: 04 April, 2003 (04.04.03), Full text; Figs. 1 to 18 & EP 1267415 A2 & CN & US 2002/0185705 A1 & KR	1405897 A	1-12
Y	WO 00/05767 A1 (Mitsubishi E. 03 February, 2000 (03.02.00), Full text; Figs. 1 to 45 & US 6307246 B1 & EP & KR 2001-0024224 A & CN & TW 398070 A	1026749 A1	1-12
Y	JP 2000-277733 A (Sanken Electron of October, 2000 (06.10.00), Full text; Figs. 1 to 7 (Family: none)	ctric Co., Ltd.),	1-12
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
"A" document de	gories of cited documents: efining the general state of the art which is not considered cular relevance	"T" later document published after the inte date and not in conflict with the applica the principle or theory underlying the in	ation but cited to understand
"E" earlier applie	cation or patent but published on or after the international	"X" document of particular relevance; the c	laimed invention cannot be
cited to esta	thich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other on (as specified)	considered novel or cannot be considered when the document is taken alone "Y" document of particular relevance; the considered to the con	laimed invention cannot be
Total Control	ferring to an oral disclosure, use, exhibition or other means	considered to involve an inventive and combined with one or more other such	documents, such combination
"P" document pu priority date	blished prior to the international filing date but later than the claimed	being obvious to a person skilled in the document member of the same patent f	
	Date of the actual completion of the international search 15 February, 2005 (15.02.05) Date of mailing of the international search report 01 March, 2005 (01.03.05)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 5-218415 A (Kawasaki Steel Corp.), 27 August, 1993 (27.08.93), Full text; Figs. 1 to 6 (Family: none)	1-12
Y	JP 60-244043 A (Toshiba Corp.), 03 December, 1985 (03.12.85), Full text; Figs. 1 to 3 (Family: none)	2-7,10-12
; Y	JP 4-273462 A (Sharp Corp.), 29 September, 1992 (29.09.92), Full text; Figs. 1 to 2 (Family: none)	2-7,10-12
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